

What is claimed is:

1. A power supply system having a power supply including an electric generator and a battery, and a power control unit for controlling electric power supplied from said power supply to an electric load, wherein said power supply system has battery condition sensing means for sensing the operative condition of said battery and load condition sensing means for sensing the operative condition of said electric load, and said power supply system has a function in which the variation of the power supply voltage at the time of the operative requirement of said electric load is estimated based on the condition of said battery and the operative condition of said electric load, and the current of the electric load is limited when said estimated electric power supply voltage is smaller than a predetermined value.

2. A power supply system according to claim 1 wherein the variation of said power supply voltage is estimated in consideration of the maximum output current of said electric generator.

3. A power supply system according to claim 1 wherein the current of said electric load is limited in consideration of the level of importance said electric load and the magnitude of current.

4. A power supply system according to claim 1 wherein it has a

function in which the start of operation of said electric load is delayed by a predetermined time at the time of the operative requirement of the electric load.

5 5. A power supply system according to claim 1 wherein a command to make the rise of said electric load less severe based on said battery condition at the time the operative requirement of the electric load is provided.

10 6. A power supply system having a power supply including an electric generator and a battery, and a power control unit for controlling electric power supplied from said power supply to an electric load, wherein said power supply system has battery condition sensing means for sensing the operative condition of said
15 battery, and said power supply system has a function in which a target voltage value to electric generator is commanded based of the battery condition sensed by said battery condition sensing means.